TERMINAL INSTRUMENT PROCEDURES (TERPS) WORKING GROUP
TWG
February 7-8, 2001
STATUS
TWG Control # 00-02-003

Subject: Removal of TERPS Appendix 2, Figure 129A, RPI/GPI/TCH Computations for ILS with Relatively Smooth Terrain

Background/Discussion: After extensive discussions with USAF E & I engineers and the FAA, we have determined that use of the Rapidly Dropping Terrain (RDT) formula(s) is the preferred method of calculation regardless of terrain features. The USAF is currently mandating that all such ILS calculation be made using the RDT formula(s).

Recommendations: FAA remove Figure 129A from Appendix 2 and make appropriate editorial changes to accommodate the use of the formula(s) in Figure 129.

Submitted by: Tom Schneider
Organization: Air Force Flight Standards Agency
E-mail: thomas.schneider@andrews.af.mil
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TWG 00-02: Tom Schneider, AFFSA, explained Air Force policy is to consider all ILS installations to be developed under the rapidly dropping formula. The Navy objected since "End Fire" antennas may use the phase center elevation for calculations rather than the antenna site elevation. The Army uses whatever the FAA uses. Jack Corman will research the possibility of producing a single standard for ILS TCH computations. Action: AFS-420.

TWG 01-01: Updated by Tom Schneider, AFFSA. The USAF has requested that TERPS Figure 129A be removed and criteria revised to mandate Figure 129 be used to compute GPI and TCH for all ILS systems. Joe Messina, NAVFIG, objected stating that the Naval "end fire" systems use Figure 129A. Jack Corman, AFS-420, suggested that neither figure is necessary. System installers should be advised what TCH value is required. Once the system is installed and the TCH value is verified, the procedure

specialist should use the TCH as the key to computing GPI and RPI. The consensus is to not take any action on figures 129/129A pending further feedback from the USAF and Navy. Action: All.

TWG 01-02: Mark Brown, NAVFIG, and Walt Perron, USAASA, stated that both figures should remain to ensure support for service unique systems. The group agreed to retain both figures. (See related Recommendation, TWG Control 01-01-006).
Recommendation Closed.
